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| **Topic** | **Name:** |
| 2-2 Air Pressure  page 50 | **Teacher:** |
|  | **Class:** |
|  | **Date** |
| **Questions/Main Ideas:** | **Notes** |
| Air pressure | \*the weight of the atmosphere itself is constantly pressing down on your body |
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| Properties of Air | **\***because air has mass, it also has density and pressure  \*formula- Density = Mass  Volume |
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| Pressure | \*the force pushing on an area or surface  \*air pressure is the result of the weight of a column of air pushing down on an area  \*atmosphere is heavy  \*the air pressing down on you is BALANCED…pushing from all different directions so that we aren’t crushed  \*air pressure changes from day to day |
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| Measuring Air pressure | \*barometer is an instrument that is used to measure air pressure  \*2 kinds of barometers: mercury and aneroid |
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| Mercury Barometer | \*consists of a glass tube open at the bottom end and partially filled with mercury  \*at sea level the mercury column is about 76 centimeters high |
| Aneroid Barometer | \*aneroid means ‘without liquid’  \*an air tight chamber that is sensitive to air pressure changes  \*as air pressure increases, the thin wall of the chamber are pushed in |
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| Units of Air pressure | \*weather reports use ‘inches’ to measure the air pressure  \*for example, “30 inches of mercury” is a barometric pressure of ‘30 inches’  \*National Weather service uses ‘millibars’ to measure air pressure.  \* ‘30 inches of mercury’ is equivalent to ‘1,016 millibars’ of air pressure  \*one inch of mercury is approx equal to 33.87 mb |
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| Altitude and the Properties of Air | \*altitude, or elevation, is the distance above sea level  \*air pressure decreases as altitude increases.  \*as air pressure decreases, so does density |
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| Altitude Affects Air Pressure | \*sea-level air has the weight of the whole atmosphere pressing down on it making air pressure the highest at sea level  \*air pressure at the top of a mountain has less weight pressing on it and thus has lower air pressure |
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| Altitude affects Density | \*the density of air decreases as you go up in the atmosphere  \*gas molecules that make up the atmosphere are farther apart at high altitudes than they are at sea level  \*there are fewer oxygen molecules to breathe because the air is less dense at high altitudes |
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|  | US: Current Weather |
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| **Summary:** | |
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